

FIG. 1

The diagram illustrates a vibration correction system for a video camera. The system is divided into several main components:

- Video Camera Assembly (700):** This assembly includes an actuator (706) and a position detection sensor (707). It is connected to a driving circuit (1517) and a second amplifier (1518).
- Driving Circuit (1517) and Second Amplifier (1518):** These components provide the necessary drive signal to the actuator (706) based on the output from the microcomputer.
- Microcomputer (1505):** The central processing unit, which receives input from an angular velocity sensor (1501) and the position detection sensor (707). It contains:
 - First Frequency Detection Section (1512):** Consists of a second HPF (1506), a second integrator (1512), and a first frequency calculation section (1513).
 - Second Frequency Detection Section (1513):** Consists of a first HPF (1507), a first integrator (1511), and a second frequency calculation section (1513).
 - Vibration Correction Frequency Control Section (1511):** Receives signals from the first and second frequency calculation sections and outputs a control signal to the variable HPF (1508).
 - Variable HPF (1508):** A high-pass filter whose characteristics are controlled by the vibration correction frequency control section.
- Signal Processing and Output:** The output of the variable HPF (1508) is processed by a phase compensation section (1509) and a first integrator (1510). The output of the first integrator (1510) is then added to the original signal in an adder (1516). The result is converted to analog by a D/A converter (1515) and sent to a recording/reproducing section.

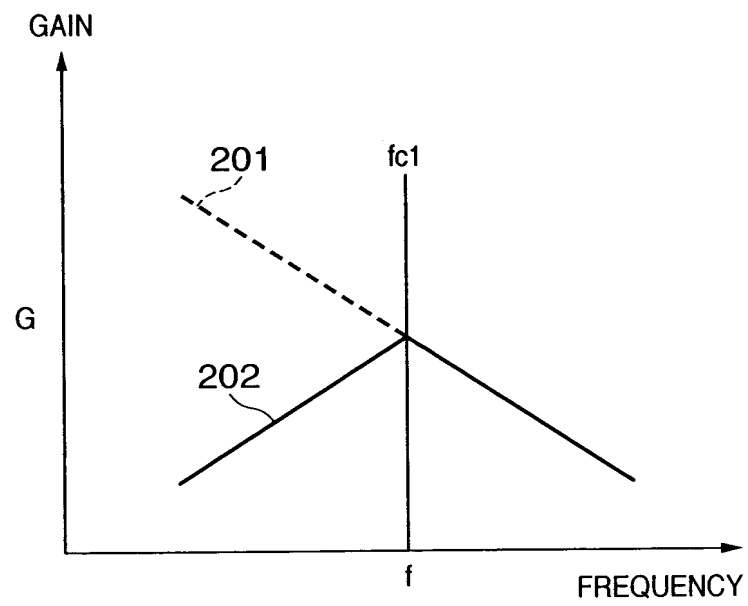
FIG. 2

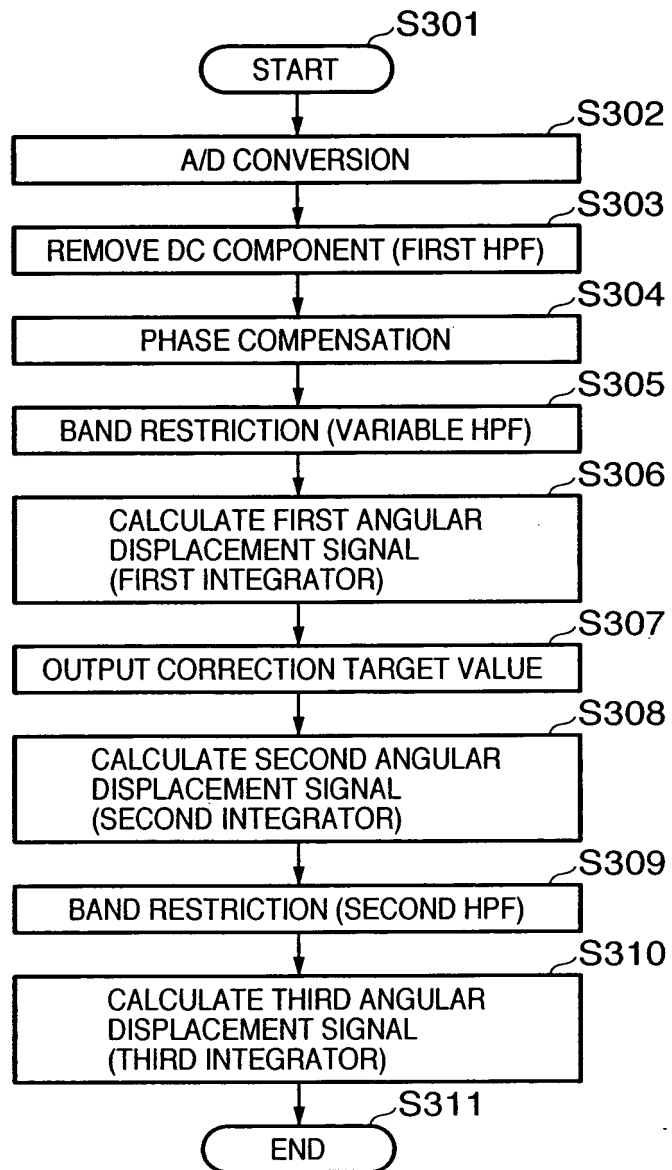
FIG. 3

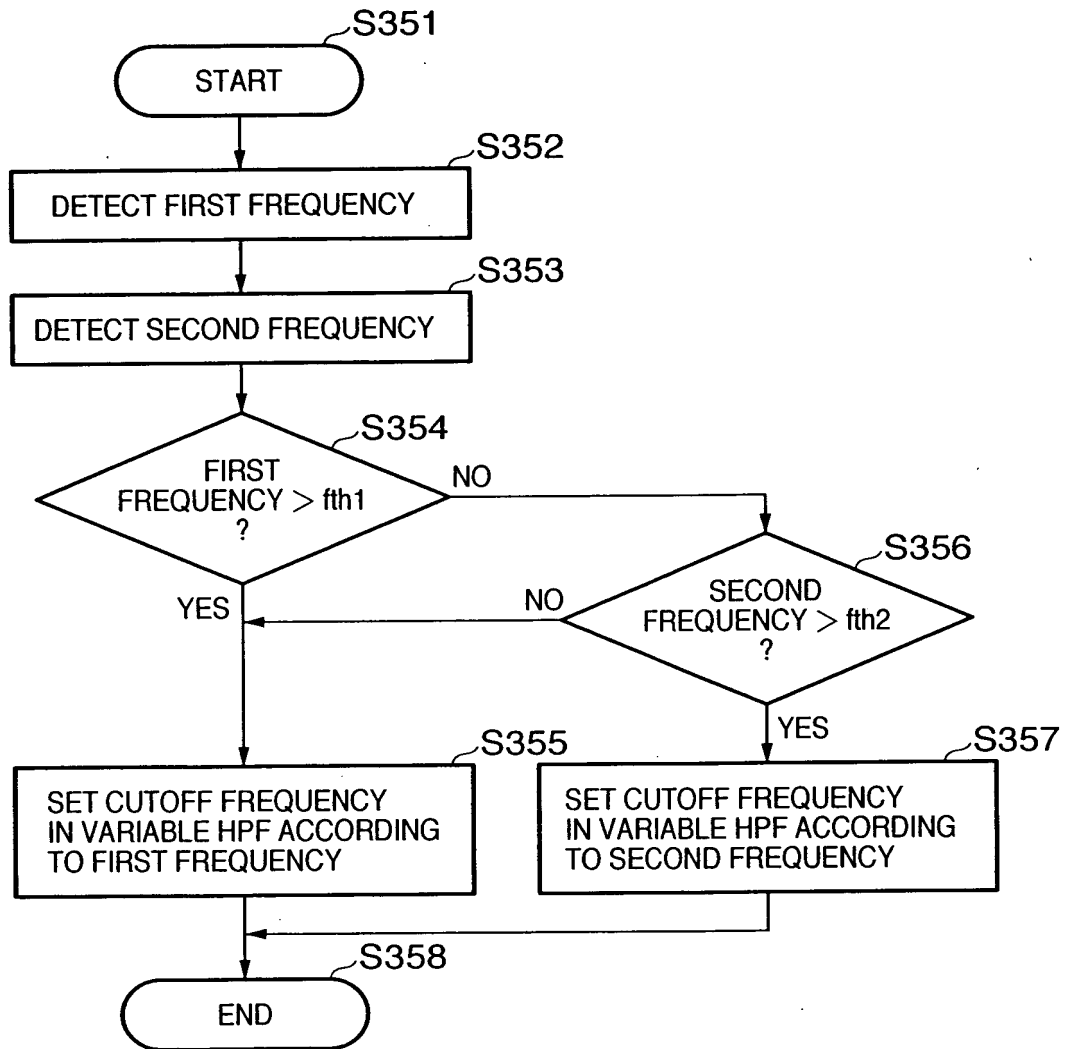
FIG. 4

FIG. 5

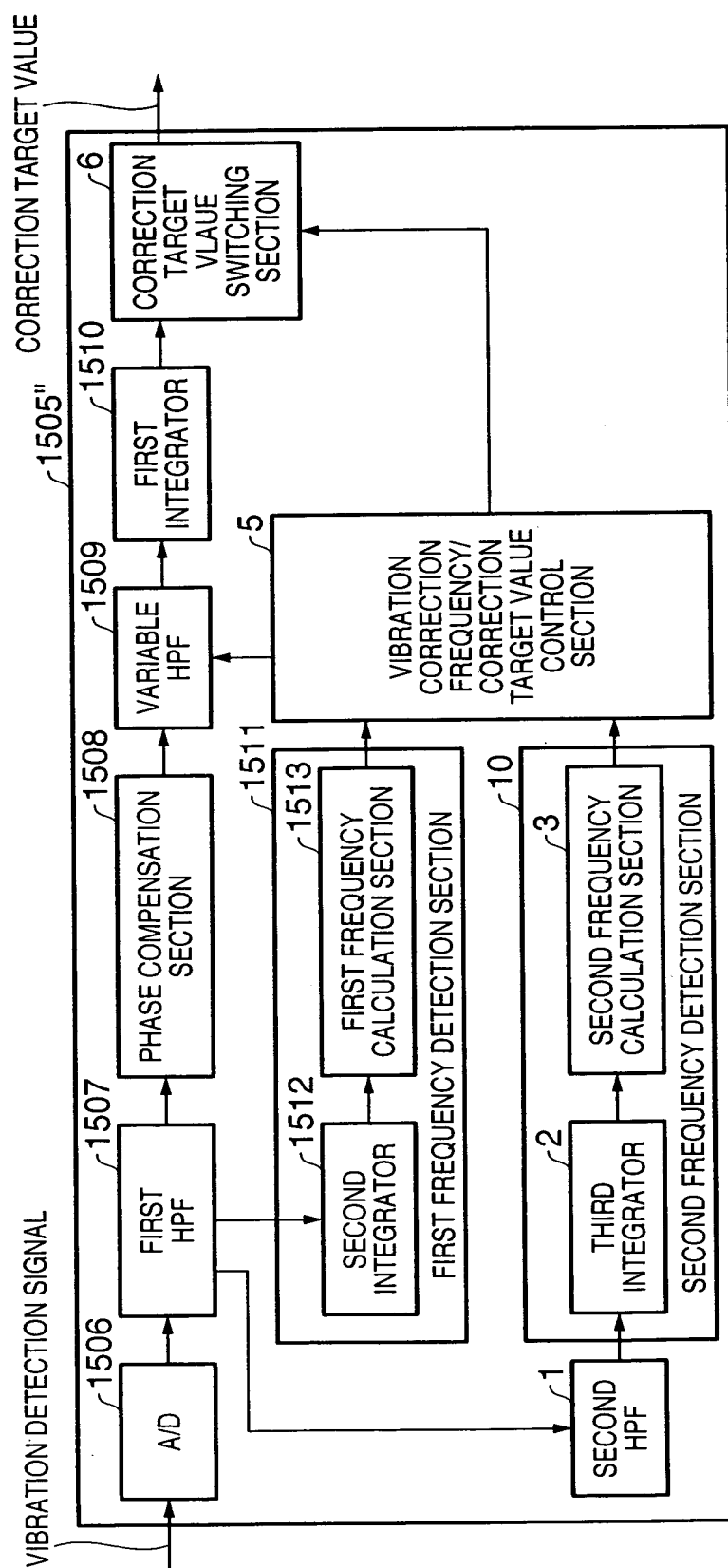


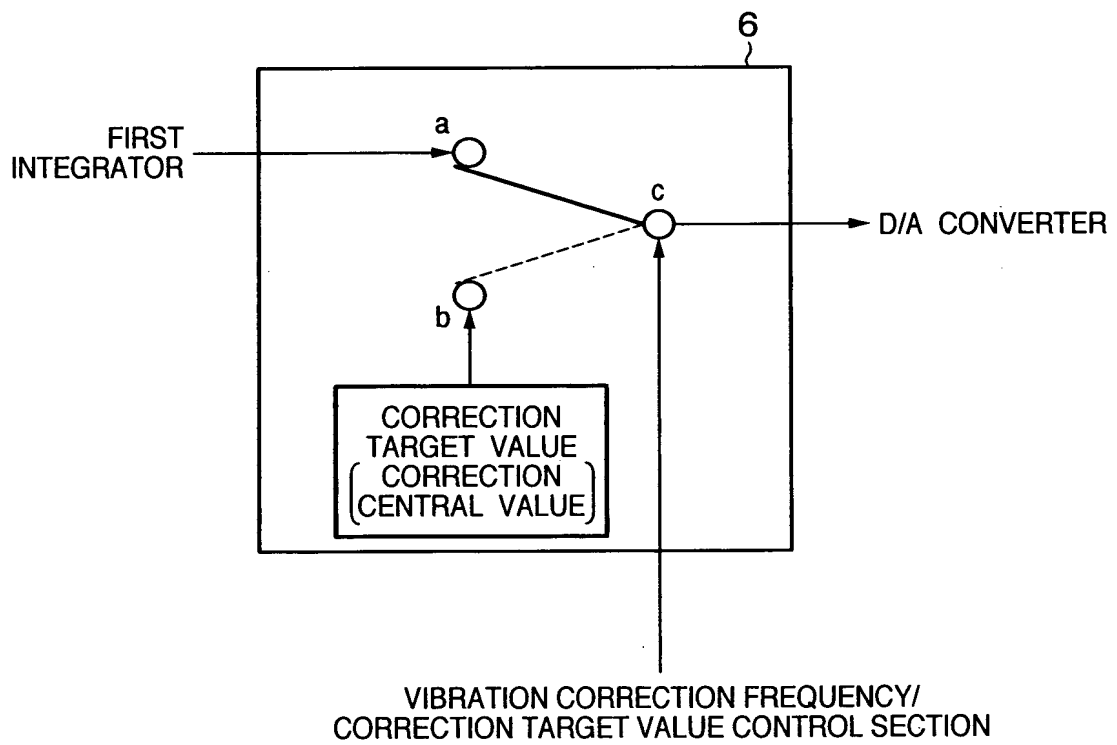
FIG. 6

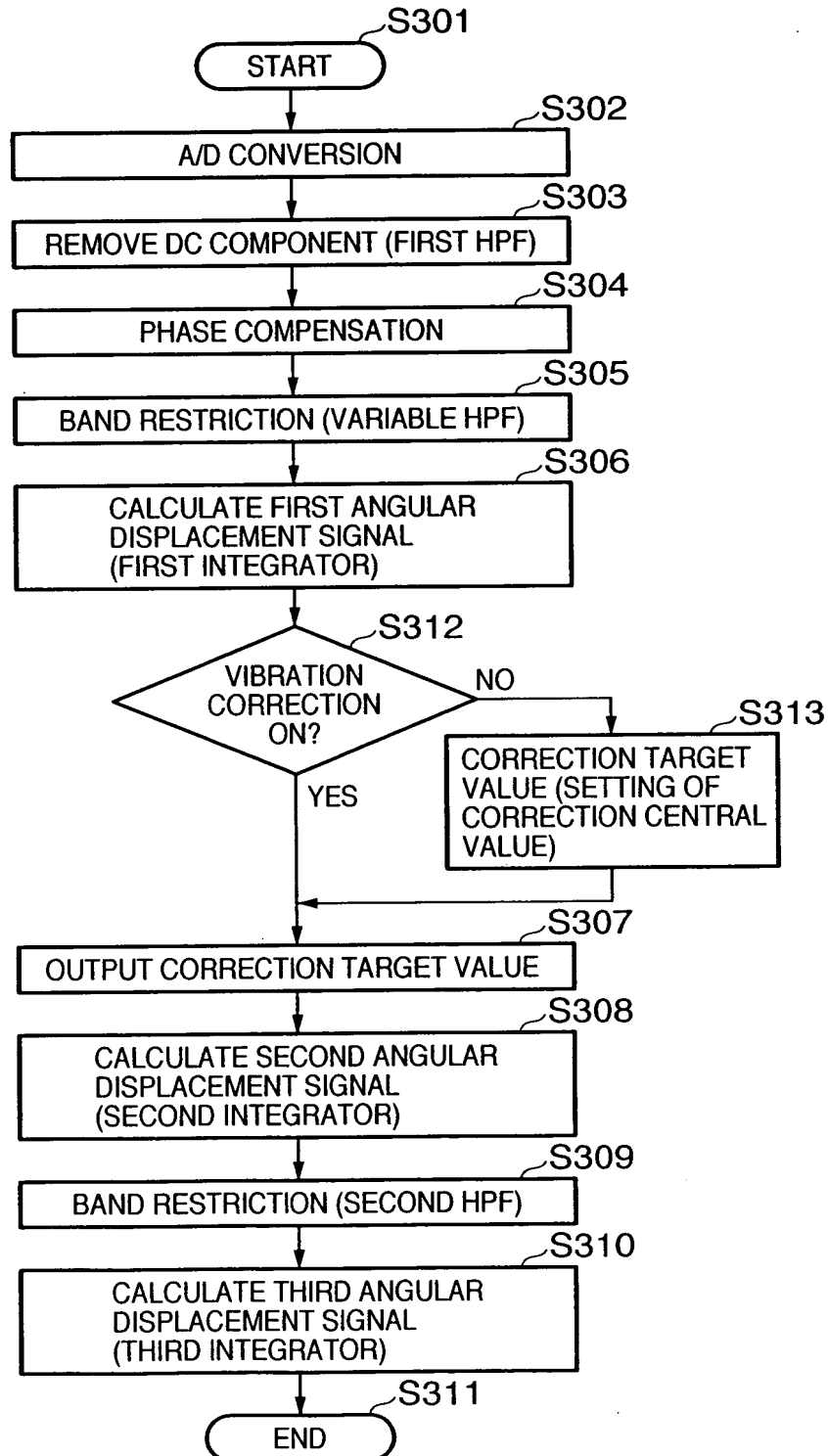
FIG. 7

FIG. 8

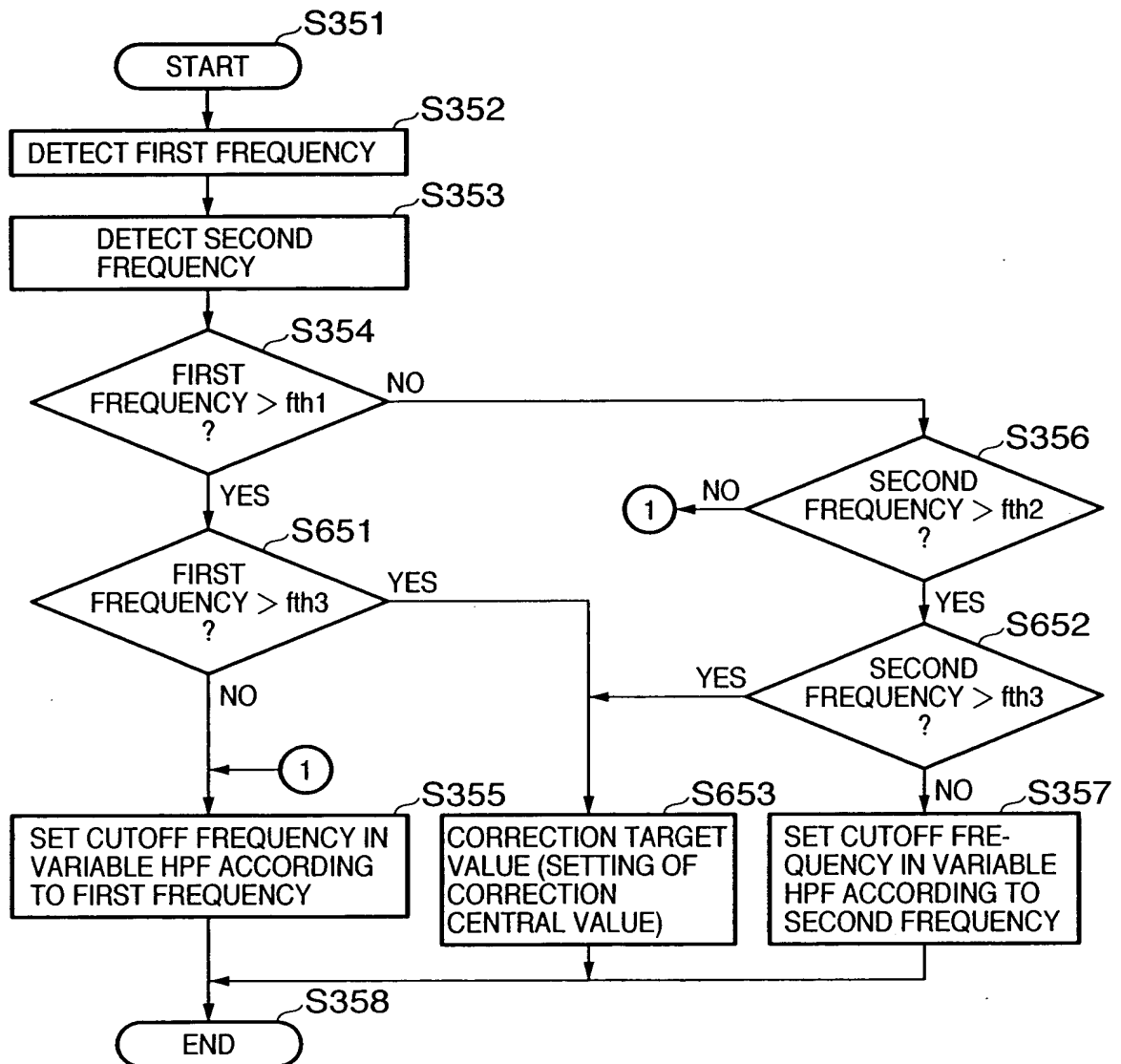


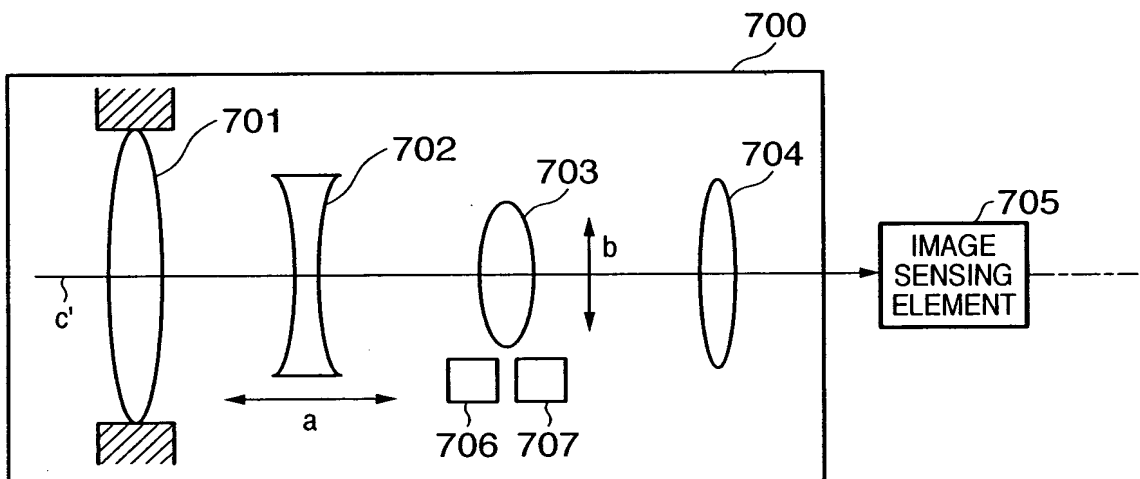
FIG. 9

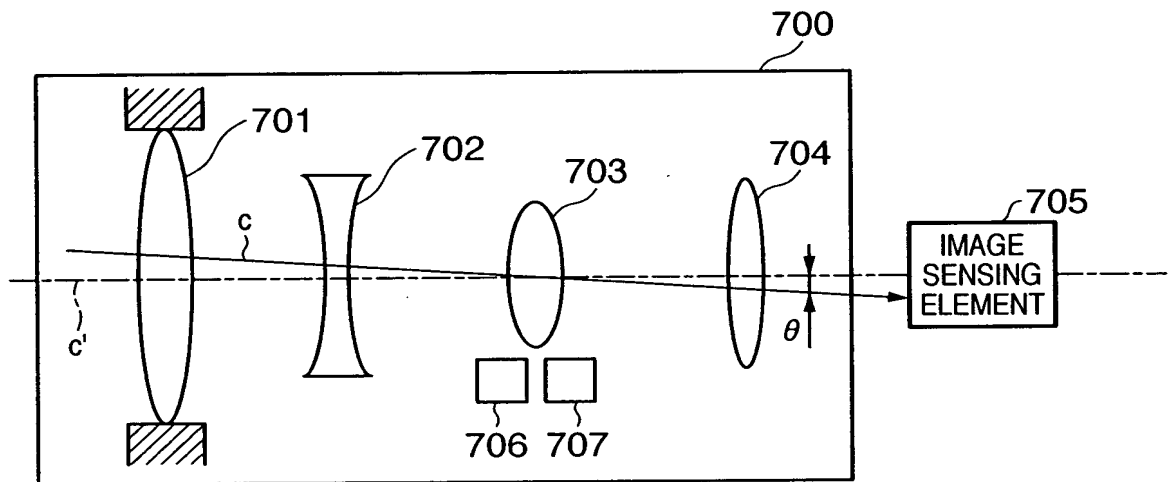
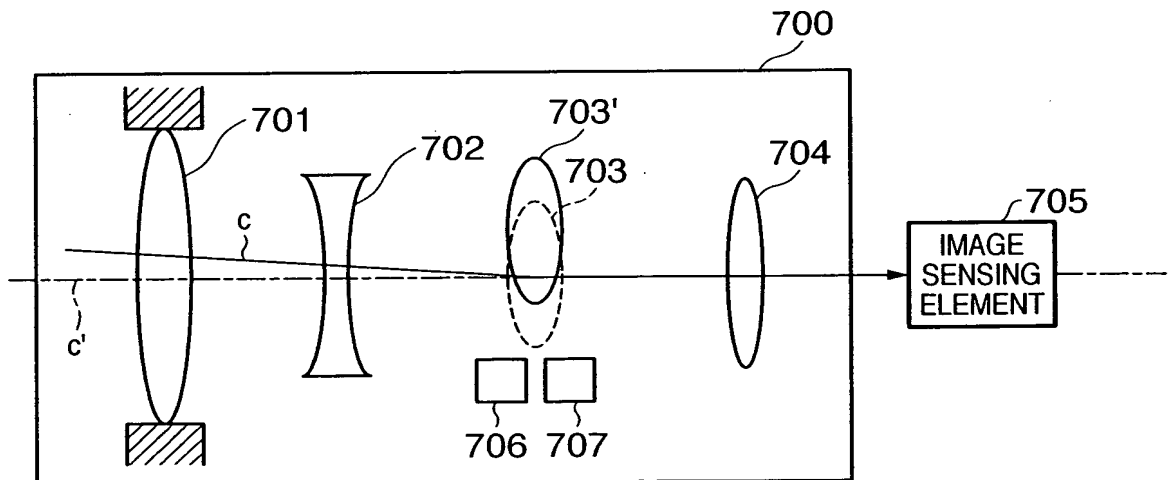
FIG. 10A**FIG. 10B**

FIG. 11

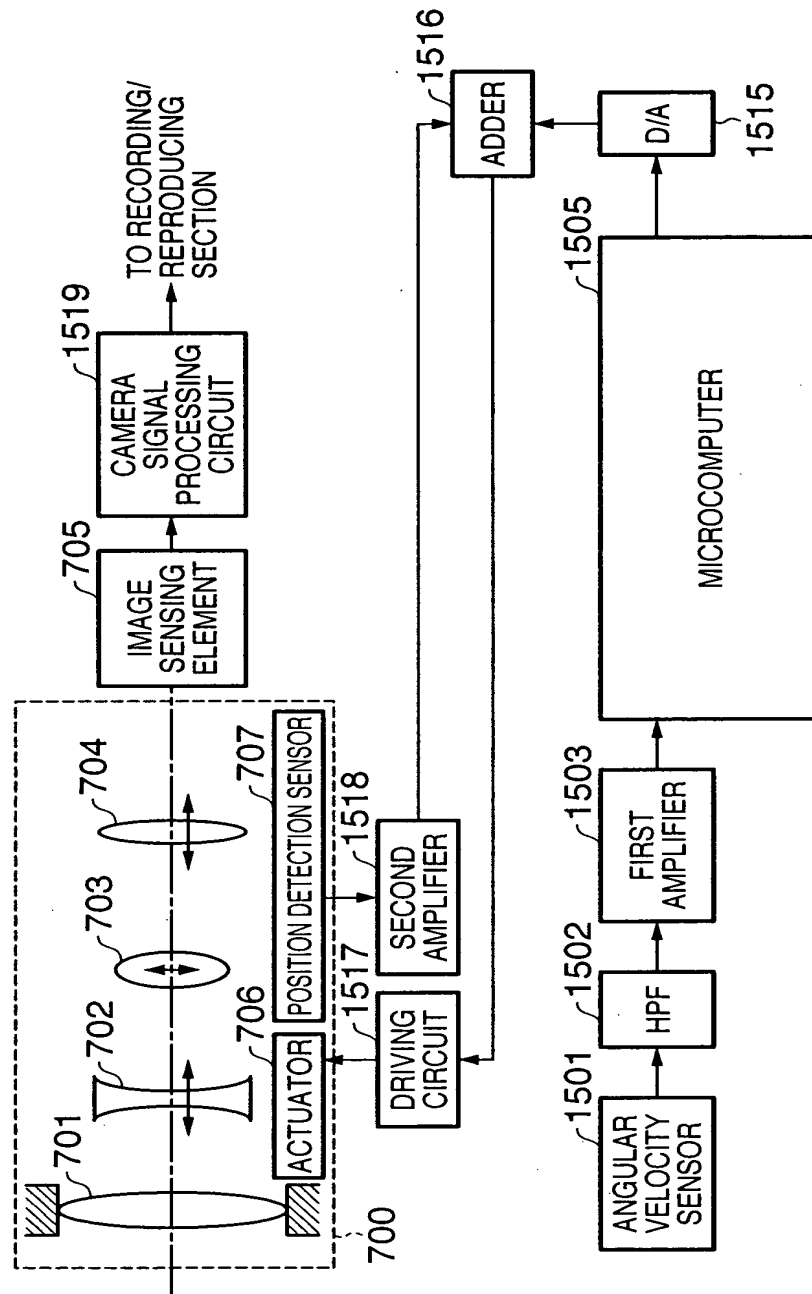


FIG. 12

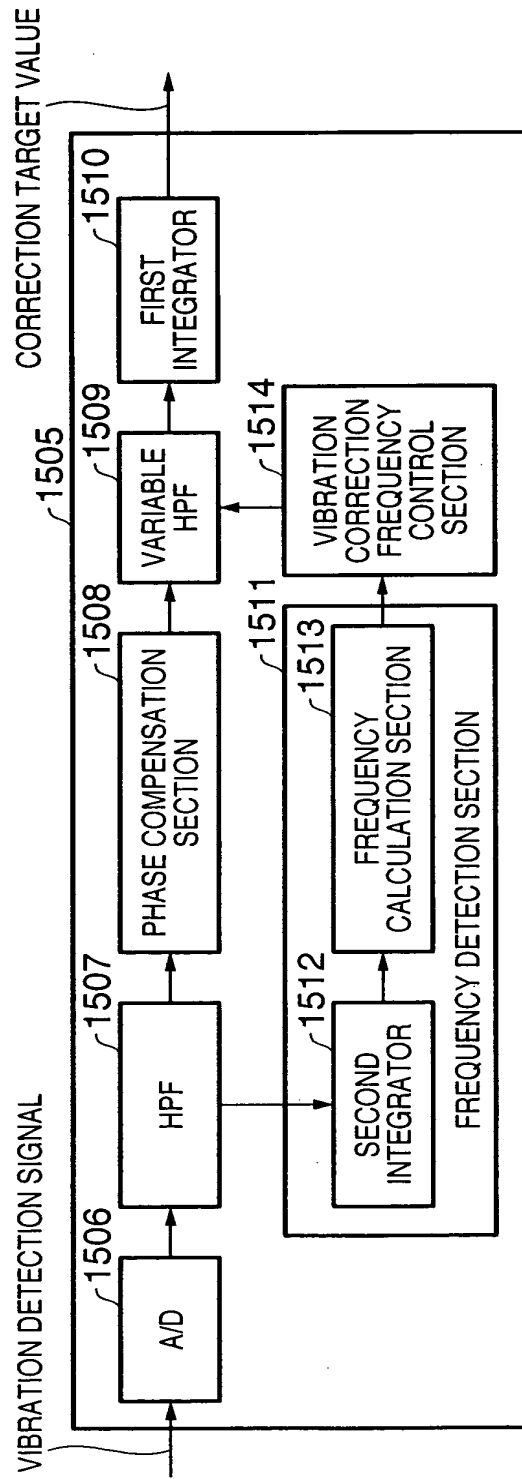


FIG. 13

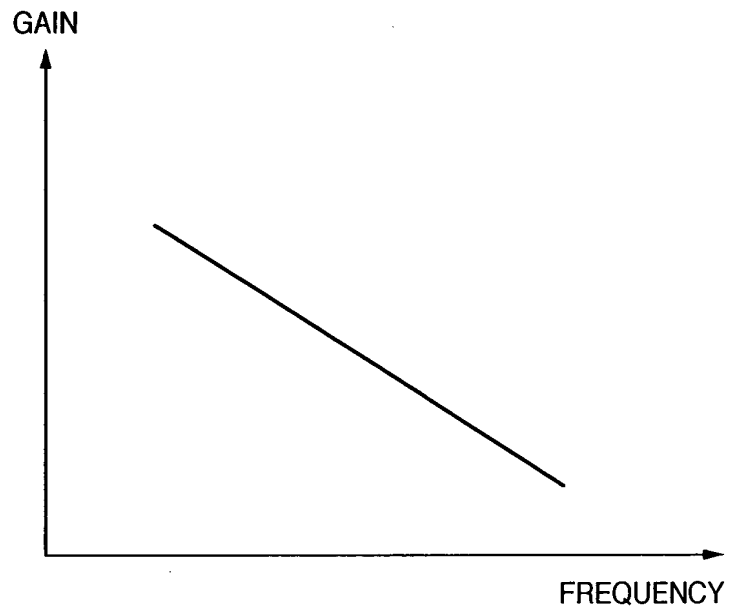
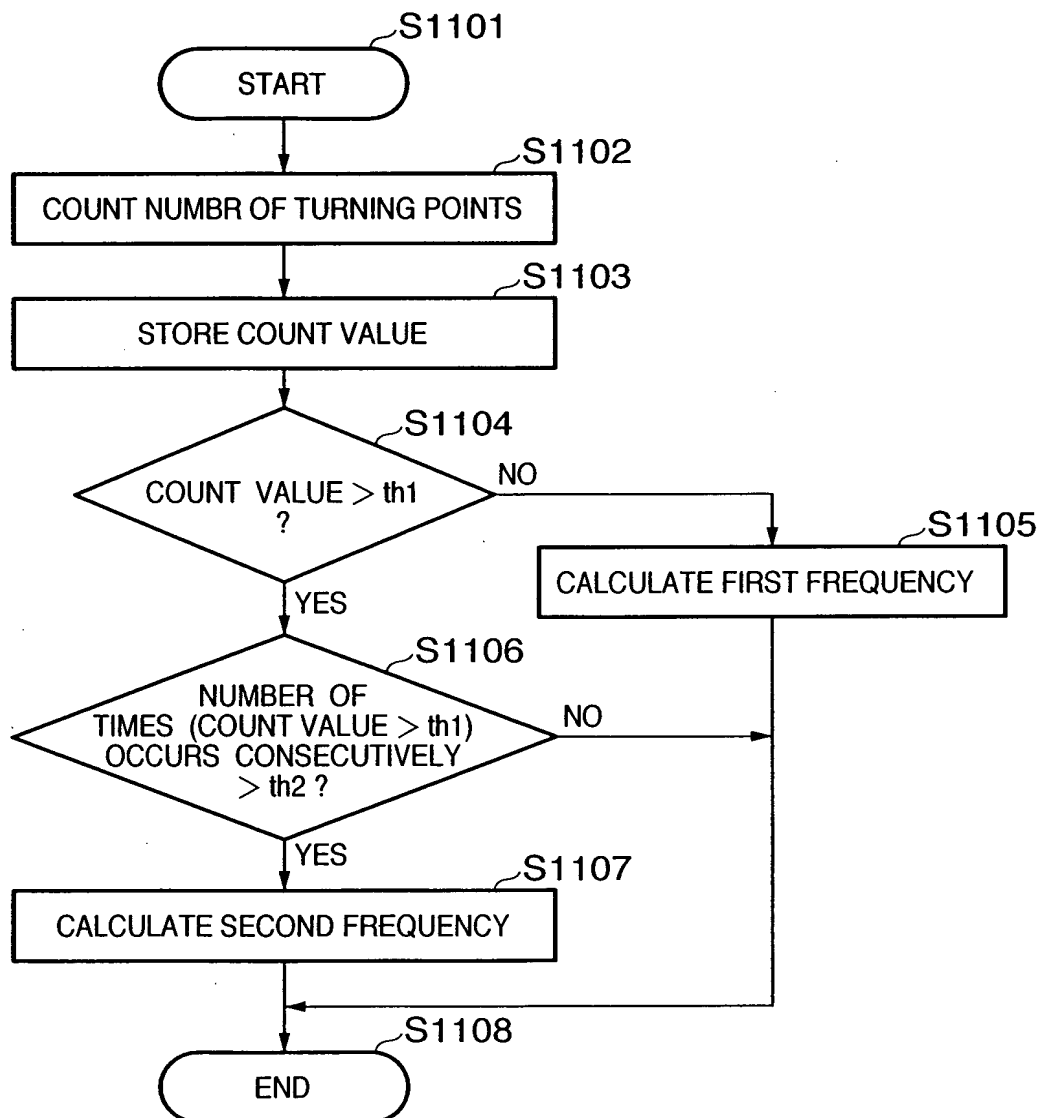


FIG. 14

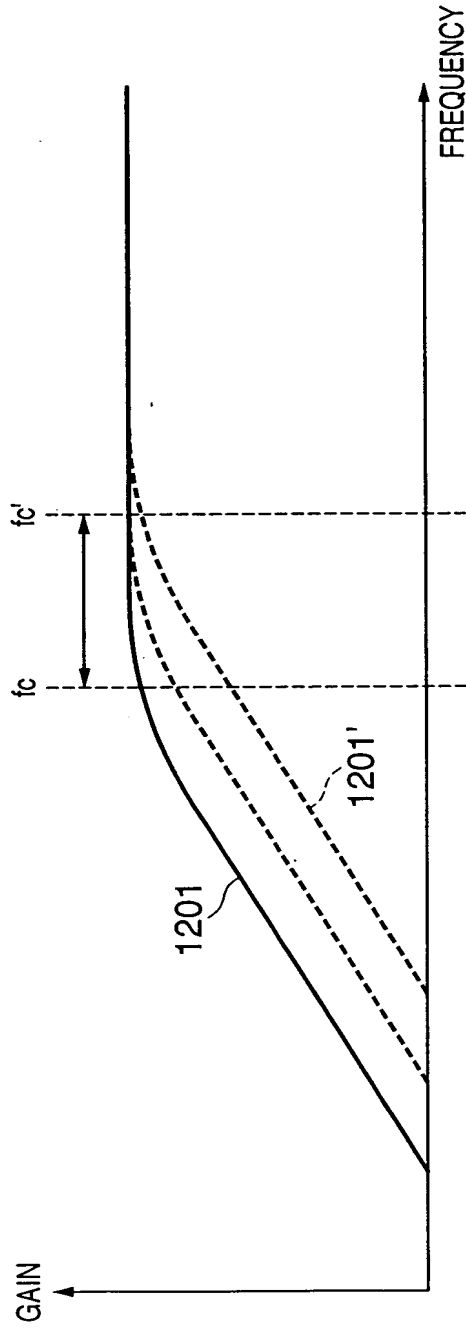


FIG. 15A

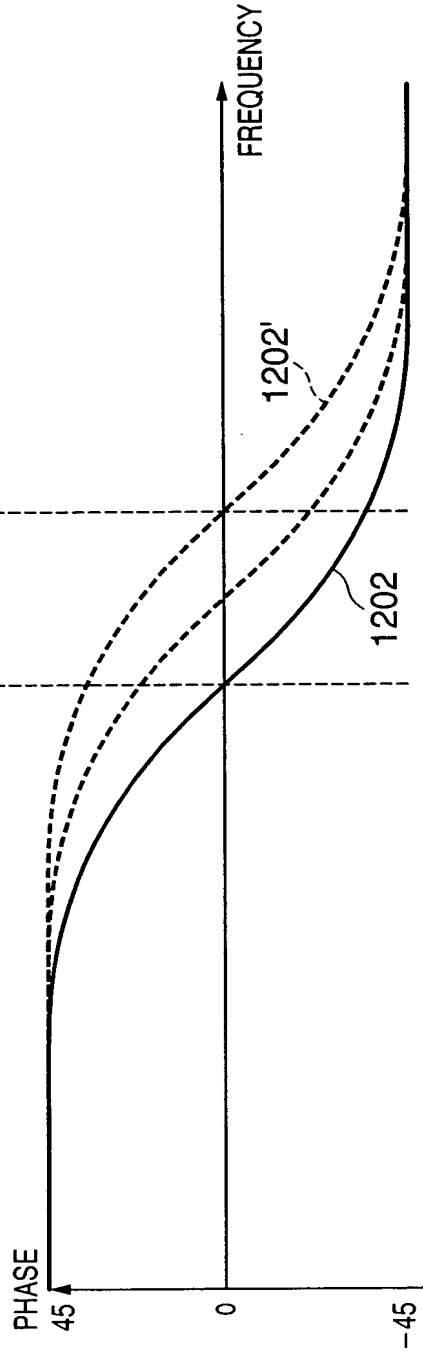


FIG. 15B

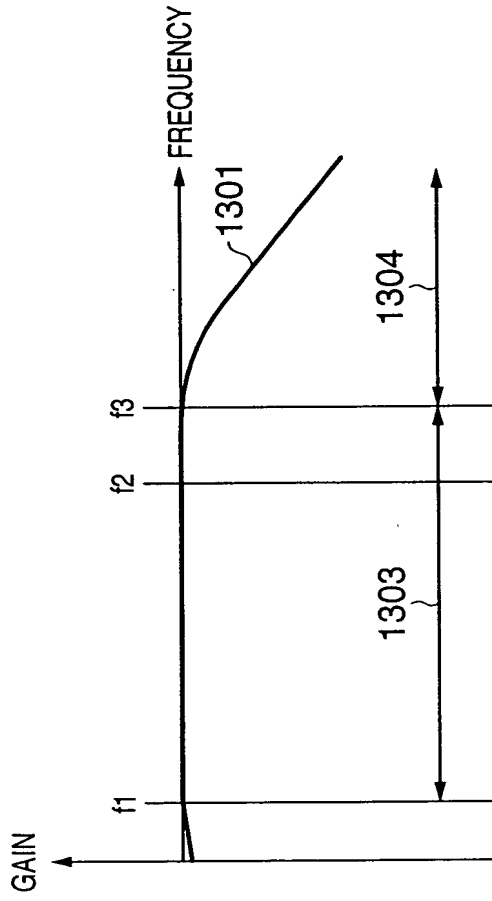


FIG. 16A

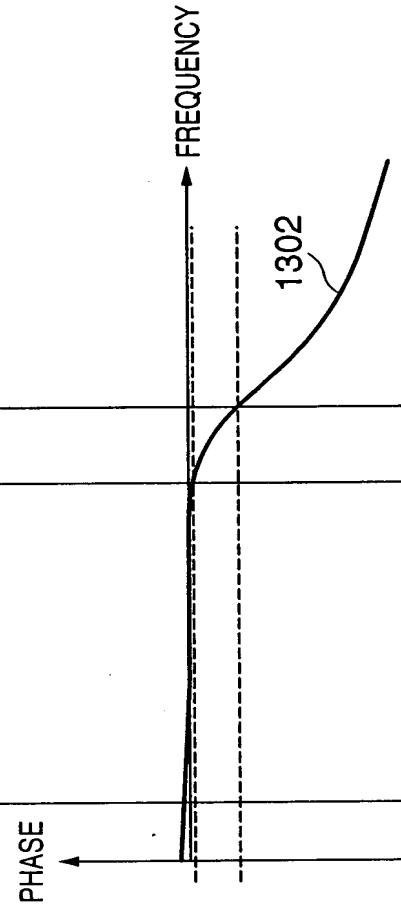


FIG. 16B

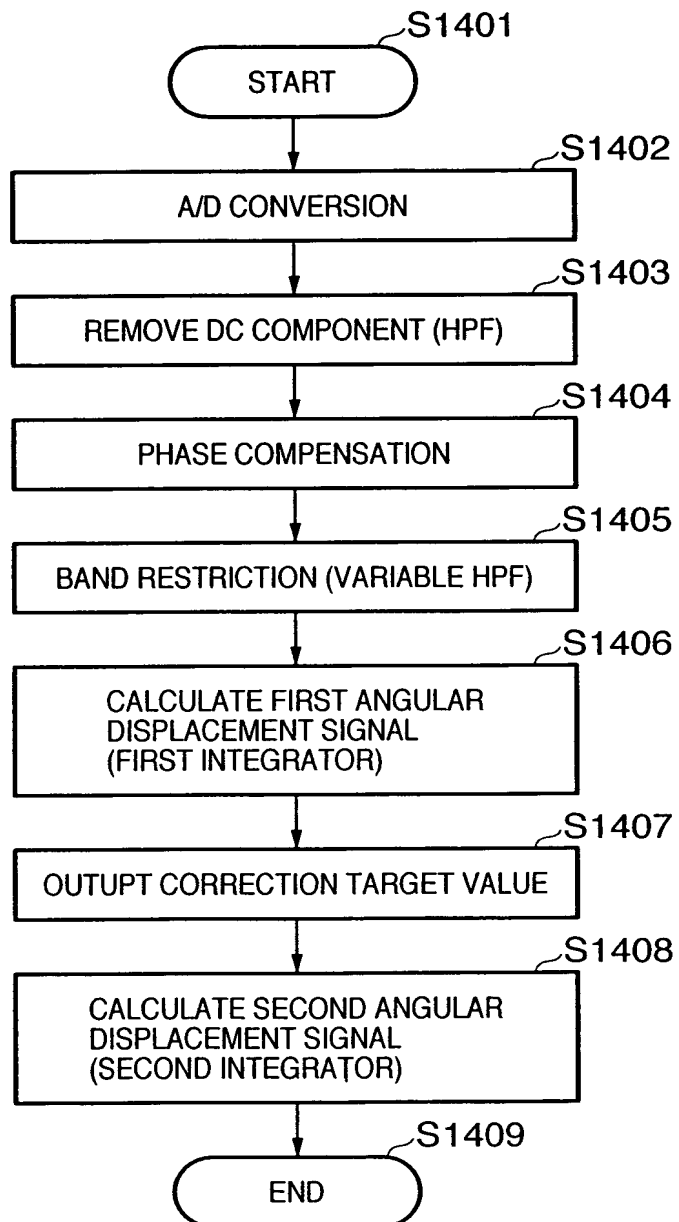
FIG. 17

FIG. 18